## AMENDMENTS TO CLAIMS

This listing of claims will replace all prior version, and listings, of claims in the application:

## **Listing of Claims**

Claims 1-7 (canceled)

Claim 8 (previously presented): An apparatus for generating precision clock information, comprising:

a source of power line timing information;

a source of externally-generated precision time information;

a timing circuit coupled to the source of externally-generated precision time information to receive a precision time signal therefrom, the timing circuit operable to generate clock information based on the precision time signal, the timing circuit further operable to generate clock information based on the power line timing information, the timing circuit comprising an accumulator, the accumulator including a an output, a first input, a second input, and a third input;

a source of clocking signals operable to generate a clocking signal having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal; and,

wherein the accumulator increments a value stored therein based on the second input and the third input;

the accumulator is operable to receive a precision time pulse at the first input;

the accumulator is operable to generate a timing output signal at the output when
the value exceeds a predetermined threshold; and

the accumulator is operable to generate a timing output signal at the output when the accumulator receives the precision time pulse.

Claims 9-16 (canceled).

Claim 17 (currently amended): An electricity meter operable to <u>obtain</u> data related to energy consumption, the meter comprising;

- a sensor circuit operable to generate voltage and current measurement signals;
- a measurement circuit operable to generate energy consumption data from the voltage and current measurement signals;
  - a source of power line timing information;
  - a source of externally-generated precision time information;
- a timing circuit coupled to the source of externally-generated precision time information to receive a precision time signal therefrom, the timing circuit operable to generate clock information based on the precision time signal, the timing circuit further operable to generate clock information based on the power line timing information;
- a memory operable to store at least some energy consumption data and a time record associated therewith, the time record generated in part using the clock information.

Claim 18 (currently amended): The apparatus of claim 17 wherein the timing circuit is operable to generate clock information based on the precision time signal when the power line timing information is unavailable and when the precision time signal is available.

Claim 19 (original): The apparatus of claim 17 wherein the timing circuit is operable to generate clock information based on the power line timing information when the precision time signal is unavailable.

Claim 20 (original): The apparatus of claim 17 wherein the power line timing information includes a pulse signal derived from a power line signal.

Claim 21 (original): The apparatus of claim 20 further comprising a delay coupled between the source of power line timing information and the timing circuit, the delay operable to synchronize the pulse signal with the precision time signal.

Claim 22 (currently amended): The apparatus of claim 17 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.

Claim 23 (currently amended): The apparatus of claim 18 wherein the timing circuit is operable to generate clock information based on the power line timing information when the precision time signal is unavailable and when the power line timing information is available.

Claim 24 (previously presented): The apparatus of claim 18 wherein the power line timing information includes a pulse signal derived from a power line signal.

Claim 25 (previously presented): The apparatus of claim 24 further comprising a delay coupled between the source of power line timing information and the timing circuit, the delay operable to synchronize the pulse signal with the precision time signal.

Claim 26 (currently amended): The apparatus of claim 18 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.

Claim 27 (previously presented): The apparatus of claim 19 wherein the power line timing information includes a pulse signal derived from a power line signal.

Claim 28 (previously presented): The apparatus of claim 27 further comprising a delay coupled between the source of power line timing information and the timing circuit, the delay operable to synchronize the pulse signal with the precision time signal.

Claim 29 (currently amended): The apparatus of claim 19 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.

Claim 30 (currently amended): The apparatus of claim 20 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.

Claim 31 (previously presented): The apparatus of claim 30 further comprising a delay coupled between the source of power line timing information and the timing circuit, the delay operable to synchronize the pulse signal with the precision time signal.

Claim 32 (previously presented): The apparatus of claim 22 wherein the power line timing information includes a pulse signal derived from a power line signal.

Claim 33 (previously presented): The apparatus of claim 32 further comprising a delay coupled between the source of power line timing information and the timing circuit, the delay operable to synchronize the pulse signal with the precision time signal.

1505-0088

Claim 34 (currently amended): The apparatus of claim 24 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.

Claim 35 (currently amended): The apparatus of claim 25 further comprising a source of clocking signals operable to generate a clocking signal have having a frequency exceeding a frequency of the precision time signal, and wherein the timing circuit is further operable to generate the clock information based on the clocking signal.